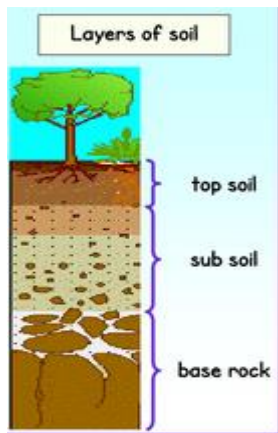


|             |   |
|-------------|---|
| rocks       | rocks are made up of grains that are packed together  |
| mineral     | Minerals are solid chemical substances that occur naturally – examples include diamond, quartz, and gypsum. Each grain that makes up the rock is made from a mineral.                         |
| permeable   | Allowing water to pass through it   |
| petrologist | Someone who studies rocks   |
| magma       | Liquid rock inside a volcano  |
| lava        | Liquid rock that flows out of a volcano. Fresh lava ranges from 1300 to 2200 degrees Fahrenheit (700 to 1200 degrees centigrade) in temperature and glows red hot to white hot when it flows. |
| Molten rock | A rock that has been reduced to liquid through heating.   |
| fossils     | the remains or impression of a prehistoric plant or animal embedded in rock   |
| soil        | Soil is a mixture of tiny particles of rocks, organic matter from animals and plants, as well as air and water  |

| Man made  | Natural   |   |   |
|---|---|---|---|
| Man-made rocks are often used for buildings and structures. | <b>sedimentary</b>  | <b>igneous</b>  | <b>metamorphic</b>  |
|   | Tend to be grainy in texture and may contain fossils<br>e.g. sandstone and limestone  | Tend to have interlocking grains giving the rock a crystalline appearance<br>e.g. granite | Often has a crystalline appearance<br>e.g. marble   |
| Examples: Concrete and bricks                               | Formed from the fragments of other rocks that have been weathered, eroded and transported, by water, ice or wind and finally deposited (settled) as sediments in water or dunes | Formed by the solidification of molten rock or magma                                      | After its original formation this rock has been altered in structure and composition by heat, and chemically active fluids. |



Half of soil is air and water. The water is in the soil and the air is in the gaps between the soils.

Things you might find in soil: sand, small stones, bits of leaf, and insect wing, root, ants

Contained within the soil are millions of micro-organisms which help break down the matter and make the soil healthy and full of life.

